



**DR SAMARJIT DAS**, an Associate Professor in the Department of CSE of The Assam Royal Global University, a former Assistant Professor of Cotton University, has almost two (02) decades of teaching experience in the domain of Computer Science and Technology. Dr Das has four (04) **Patents** and published many **research articles** in reputed international journals having indexing like **Scopus, UGC** etc. His research works have earned almost hundred (**100**) **citations** which is reflected in google scholar citations. Dr Das has also given talks in many professional National and International Seminars and Conferences. In addition to participating multiple national level Workshop he has also coordinated a Workshop organized by **Network Bulls in collaboration with ACM-IIT Delhi**. In spite of teaching he has **Twenty (20) years of experience as a project guide** of under graduate and post graduate students and rendered services as a **resource person** and **exam supervisor** many times. He had also been associated in **placement cell** for many years during his stay in Cotton. Dr. Das who is an alumni of Cotton College had been associated in students' welfare, cocurricular and extracurricular activities.

## PERSONAL PROFILE

1. **Name:** Dr. Samarjit Das.
2. **Present Address:** Teachers' Qtr. No. 117  
Gauhati University Campus  
Kamrup(M) , Assam.
3. **Contact:**7002190610, WhatsApp: 9435314744  
E-mail: [ssaimm@rediffmail.com](mailto:ssaimm@rediffmail.com)
4. **Date of birth:** 26/02/1976
5. **Date of joining in Royal Global University:** 01/03/2023
  - a. **Department:** Computer Science & Engineering.
  - b. **Designation:** Associate Professor
6. **Academic Qualification:** Ph.D. (C. Sc.), M. Phil. (C. Sc.), MCA, M.Sc. (Mathematics.), B.Ed., PGDCA.
7. **PhD Work:**
  - a. **Title:** "Towards Finding New Fuzzy Clustering Algorithms"
  - b. **Domain:** Data Mining
  - c. **Department:** Computer Science, Gauhati University

- d. **Faculty:** Technology
- e. **Supervisor:** Prof. Hemanta Baruah  
Former Professor & Head, Department of Statistics, Gauhati University  
Former Vice-Chancellor, Bodoland University
- 8. **Total work experience:** twenty (20) years (Approximately)  
**(One (01) year in RGU, Fourteen (14) years in Erstwhile Cotton College and Cotton University & five (05) years in Sainik School Goalpara).**
- 9. **Area of Specialization:** Data Mining, Fuzzy Logic, Fuzzy Clustering.
- 10. **Any other extraordinary academic achievement in the form of any Award, Prize, Citation etc.**
  - a. Nominee for the GEM of India Award.
  - b. Passed **Microsoft’s Digital Literacy Certificate Test** on 23<sup>rd</sup> September, 2011.
  - c. **Citations for Published Research Articles**

|                |      |
|----------------|------|
| i. Total       | : 94 |
| ii. h-index    | : 04 |
| iii. i10-index | : 02 |

**11. Publications**

**a. Summary**

|  |      |
|--|------|
| i. No. of Paper published in <b>International Journal</b>          | : 17 |
| ii. No. of Paper published <b>Book Chapter</b>                     | : 01 |
| iii. No. of Paper published in <b>National Seminar Proceedings</b> | : 01 |
| iv. No. of Article published in <b>Souvenir</b>                    | : 02 |

**b. Details**

**i. Paper published in International Journals**

- [1] Das, S., A. U. Islam, P. Sarma , S. Borkakoty & A. Sinha (2023) “Solving the Non-Deterministic Nature of the DBSCAN Algorithm”, Journal of Harbin Engineering University , Vol. 44 No. 7, 128-136 . (Scopus)
- [2] Das, S., A. U. Islam, P.S. Velumani & B. Sarma (2022), “An Analysis of the Input Parameters of the DBSCAN Algorithm”, *Computer Integrated Manufacturing Systems*, Vol. 28 No. 11, 1299-1314 (**Scopus**)
- [3] Das, S. (2013), Pattern Recognition using the Fuzzy c-means Technique, *International Journal of Energy, Information and Communications*, vol. 4, Issue 1, 1-14. (**Peer Reviewed , 44 citations**)
- [4] Das, A., S. Das and A. U. Islam (2018), Load Balancing and Congestion Control using Congestion Aware Multipath Routing Protocol (CAMRP) in Wireless Networks, *International Journal on Future Revolution in Computer Science & Communication Engineering*, Vol. 4, Issue 2, 193-198. (**UGC listed**)

- [5] Islam A. U., S. Das and A. Das (2018), Construction of a Structure from 4- Regular Planar Graph and to investigate its implications on Odd Region and Even Region, *IOSR Journal of Engineering (IOSRJEN)*, Vol. 8, Issue 9, 31-38. **(UGC listed)**
- [6] Das, A., S. Das and A. U. Islam (2018), Congestion Control using Congestion Aware Protocol in Wireless Networks tested with Standard QoS, *Journal of Emerging Technologies and Innovative Research*, Vol. 5, Issue 8, 676-678. **(UGC listed)**
- [7] Das, S., A. Das and A. U. Islam (2018), Finding Patterns in Crime Against Women Using a Fuzzy Clustering Technique, *International Journal of Computer Sciences and Engineering*, Vol. 6, Issue 8, 356-363. **(UGC listed)**
- [8] Kalita, S. and S. Das (2015), Use of ICT In Distance Higher Education with Special Reference to Institute of Distance and Open Learning of Gauhati University, *Journal of Process Management – New Technologies*, Vol. 3, Issue 3, 104-112. **(Peer Reviewed , 10 citations)**
- [9] Das, S. and H. K. Baruah (2013), Application of Fuzzy C-Means Clustering Technique in Vehicular Pollution, *Journal of Process Management – New Technologies*, Vol. 1, Issue 3, 96-107. **(Peer Reviewed , 08 citations)**
- [10] Das, S. and H. K. Baruah (2013), A Comparison of Two Fuzzy Clustering Techniques, *Journal of Process Management – New Technologies*, Vol. 1, Issue 4, 1-15. **(Peer Reviewed , 07 citations)**
- [11] Das, S. (2012), A New Approach to Visualization of Fuzzy Set Operations, *International Journal of Energy, Information and Communications*, Vol. 3, Issue 3, 29-40. **(Peer Reviewed , 03 citations)**
- [12] Das, S. and H. K. Baruah (2014), An Approach to Remove the Effect of Random Initialization from Fuzzy C-Means Clustering Technique, *Journal of Process Management – New Technologies*, Vol. 2, Issue 1, 23-30. **(Peer Reviewed , 03 citations)**
- [13] Das, S. and H. K. Baruah (2014), A New Method to Remove Dependence of Fuzzy C-Means Clustering Technique on Random Initialization, *International Journal of Research in Advent Technology*, Vol. 2, No.1, 322-330. **(Peer Reviewed , 03 citations)**
- [14] Das, S. and H. K. Baruah (2014), Dependence of Two Different Fuzzy Clustering Techniques on Random Initialization and a Comparison, *International Journal of Advanced Research in Computer Science and Software Engineering* , Vol. 4, Issue 1,422-428 . **(Peer Reviewed , 02 citations)**
- [15] Das, S. and H. K. Baruah (2014), Towards Finding A New Kernelized Fuzzy C-Means Clustering Algorithm, *Journal of Process Management – New Technologies*, Vol. 2, Issue 2,54-65. **(Peer Reviewed , 02 citations)**

[16] Das, S. and H. K. Baruah (2014e), A New Kernelized Fuzzy C-Means Clustering Algorithm with Enhanced Performance, *International Journal of Research in Advent Technology*, Vol. 2, No.6, 43-51. (Peer Reviewed , 02 citations)

[17] Sarkar, R., M. A. Raibag, S. Das, A. Das, I.Hussain and N. Deka (2023), A Non-Classical Approach in Analyzing Student’s Performance in Academics Using Fuzzy Logic, *Tuijin Jishu/Journal of Propulsion Technology*, Vol. 44, No.3, 3542-49. (Scopus).

**ii. Book Chapter Published**

1. Das, S., A. Das and A. U. Islam (2023), Exploring Women's Safety: Uncovering Crime Patterns through Fuzzy Clustering Methods, *Research and Applications Towards Mathematics and Computer Science*, Vol. 6, Chapter 3, Print ISBN: 978-81-967636-0-2, eBook ISBN: 978-81-967636-9-5, DOI: 10.9734/bpi/ratmcs/v6/11056F.
- 2.

**iii. Paper published in National Seminar Proceedings**

1. **Published** a paper in “Seminar Proceedings” of **National Seminar** on Spirituality and Mental Health Organized by Deptt. of Psychology, Gauhati University & Psychologist’ Association of North East India(PANEI) held on 6<sup>th</sup> & 7<sup>th</sup> February ,2009.  
**Title of the paper:** Spirituality – the Path to Stress Management for Holistic Development.

**iv. Article published in Souvenir**

1. Published an article in the annual souvenir of Cotton College Computer Science Society – CHIP Vol.-II in September, 2009.  
**Title of the article:** Let us know Neural Network.
2. Published an article in the Silver Jubilee Celebration Souvenir of Basugaon College, Basugaon in August, 2011.  
**Title of the article:** Internet and Its Impact on Society.

**12. Seminar/Workshop**

**a. Summary**

|   |      |
|---|------|
| i. No. of Paper presented in National Seminar       | : 04 |
| ii. No. of Paper presented in International Seminar | : 01 |
| iii. No. of Workshop participated                   | : 06 |
| iv. No. of Workshop coordinated                     | : 01 |

**b. Details**

**i. Paper presented in National Seminar**

1. Presented a paper on **National Seminar** on Spirituality and Mental Health Organized by Deptt. of Psychology, Gauhati University &

Psychologist' Association of North East India(PANEI) held on 6<sup>th</sup> & 7<sup>th</sup> February ,2009.

**Title of the paper:** Spirituality – the Path to Stress Management for Holistic Development.

2. Presented a paper on ICSSR Sponsored **National Seminar** on Challenges to Social an Environmental Security in the North East in the 21<sup>st</sup> Cencury organized by Gauhati University Teachers' Association on 28<sup>th</sup> and 29<sup>th</sup> March, 2011 at Gauhati University, Guwahati.

**Title of the paper:** Digital Divide – the Challenge to Education.

3. A paper **presented** in the 57<sup>th</sup> Annual Technical Session of **Assam Science Society** Organized by Gauhati University , Guwahati on 16<sup>th</sup> March, 2012.

**Title of the paper:** “GSM Network - its Architecture and functionality”.

4. A paper **presented** in the Interdisciplinary **National Seminar** on Education for Human Resource Development in the Context of 21<sup>st</sup> Century , organized by Department of Education , Gauhati University in collaboration with Abhiruchi Institute of Physical Education on 5<sup>th</sup> and 6<sup>th</sup> April , 2012.

**Title of the paper:** “ICT in Physical Education – a Study in Greater Guwahati Area”.

## ii. Paper presented in International Seminar

1. A paper accepted for publication in the seminar proceedings of the **International Seminar** on Bioresources and Hunan Sustenance organized by Department of Zoology, Cotton College & Zoological Society of Assam (ZSA) held from 20<sup>th</sup> October to 22<sup>nd</sup> October, 2011 at Cotton College, Guwahati.

**Title of the paper:** Traditional Knowledge and Biodiversity Conservation with Special Reference to Some Indigenous Communities of North Eastern States.

## iii. Workshop participated

1. Participated in a two weeks Staff Development Programme on “**Database Management System with Special Reference to Database Programming**” sponsored by AICTE, MHRD, Govt. of India & conducted by the Department of Computer Engineering , Assam Engineering Institute, Guwahati -03 from 7<sup>th</sup> September , 2009 to 17<sup>th</sup> September, 2009.
2. Participated in a workshop on “**Counseling the Counselors of BCA Program**” organized by **Krishna Kanta Handiqui State Open University** , in collaboration with **Distance Education Council , New Delhi** on 22<sup>nd</sup> December, 2010.
3. Participated in a workshop on Teachers Empowerment on Information & Communications Technology entitled “**SAKSHAM – IT Champion Training Program**” organized by Department of Computer &

Information Technology , Gauhati University , Guwahati in collaboration with **Microsoft India** held from 19<sup>th</sup> September , 2011 to 28<sup>th</sup> September, 2011.

4. Participated in the National Workshop on Research in Distance and Open learning organized by Department of Education , Gauhati University in collaboration with Institute of Distance and Open Learning , Gauhati University on 5<sup>th</sup> April, 2012.
5. Participated in the North-east Workshop on **Statistical Pattern Recognition and Data mining** jointly organized by Bayesian & Interdisciplinary Research Unit (**BIRU**), Indian Statistical Institute (**ISI**), Kolkata and **Department of Statistics** , Gauhati University, Guwahati held from 13<sup>th</sup> march, 2013 to 15<sup>th</sup> March,2013.
6. Participated a Faculty Development Programme on Big Data Analysis held in the Department of CSIT, Cotton University (as a remote center) Jointly organized by Electronics and ICT Academies from 21st - 25th May, 2018. One-week Faculty Development Programme.

#### iv. Workshop coordinated

1. **Coordinated a workshop on “Ethical Hacking” organized by Network Bulls in collaboration with ACM-IIT Delhi** held on 21<sup>st</sup> & 22<sup>nd</sup> March, 2014 in the Department of Computer Science & IT, Cotton College.

### 13. Patent

#### a. Summary

i. No of Patent: 04

#### b. Details

- [1] Title of the invention: “Synthesizing Three Dimensional Images using Deep Convolutional Generative Adversarial Network (DCGAN) Algorithms”.

The Patent Office Journal No. : 37/2022 Dated 16/09/2022 57890.  
Application No. : 202241048020 A.  
Date of filing of Application : 23/08/2022  
Publication Date : 16/09/2022

- [2] Title of the invention: “A hybrid approach for analyzing of early-stage detection and prevention of lung cancer using advanced machine learning and deep learning algorithms”

#### PATENT APPLICATION PUBLICATION

Application No. 202331082502 INDIA.

<https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus>

[3] Title of the invention: “PLANT LEAF DISEASE DETECTION USING COMPUTER VISION AND MACHINE LEARNING ALGORITHMS”

PATENT APPLICATION PUBLICATION

Application No. 202431001745 INDIA.

<https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus>

[4] Title of the invention: “NANOPARTICLES BASED CANCER MEDICATION DEVICE”

PATENT APPLICATION PUBLICATION”

Application No. 202331085356 INDIA.

<https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus>

**14. Experience in NIELIT Examination**

Worked as an **Assistant Examination Superintendent (AES)** of 49<sup>th</sup> National Institute of Electronics and Information Technology (NIELIT) Examination, January-2015.

**15. Experience in ODL system**

Rendered service as an **Academic Counselor in the Cotton College Study Centre under Krishna Kanta Handiqui State Open University (KKHSOU) since 2009 to 2015 in BCA programme.**

**16. Work Experience as a Supervisory Officer**

- a. Worked as a Supervisory Officer of D.El.Ed. First year Examination, 2015 conducted by KKHSOU at Paschim Guwahati Mahavidyalaya (Study centre code: 1534, District: Kamrup) from 25<sup>th</sup> May, 2015 to 2<sup>nd</sup> June, 2015.
- b. Appointed as a Supervisory Officer of Bachelor’s Degree 2<sup>nd</sup> Semester/ Master’s Degree 3<sup>rd</sup> Semester/ Master’s Degree 5<sup>th</sup> Semester Examination, 2015 conducted by KKHSOU at Paschim Guwahati Mahavidyalaya (Study centre code: 1534, District: Kamrup) from 21<sup>st</sup> July, 2015 to 9<sup>th</sup> August, 2015.

**17. Project Experience:** Twenty (20) years of experience as a project guide of under graduate and post graduate students.

**18. List of Participation in any academic programme as the Resource Person**

- a. As a Resource Person in R.G. Baruah College, Guwahati University to conduct a teachers’ training program in Basics of Computers on August, 2010.

**19. If you are a Fellow/member/Office Bearer of any Academic Body/Society/Forum/ Association etc.**

- a. Four (04) years consecutive member of **Students' Counseling & Placement Cell**, Cotton College.
- b. Member of CCTA.
- c. Minor Games teacher in-charge, in Cotton University

**20. Participation in the Extension work/Community service**

- a. Active part in cultural functions.
- b. Active part in Minor Games.
- c. Actively involved in Departmental affairs.
- d. Examiner (internal and external) of HS, undergraduate and post graduate examinations.
- e. Invigilator of HS, undergraduate and post graduate examinations.
- f. Cooperation with concern authorities as and when required by them.

**21. Previous Organization:** Sainik School Goalpara.

- a. **Designation:** Assistant Master.
- b. **Date of joining in Sainik School Goalpara:** 20/06/2003
- c. **Total Experience in Sainik School Goalpara:** five (05) years (approx) (till 26/04/2008)
- d. **Any other duty (other than teaching):**
  - i. In-charge of Hostels.
  - ii. Duty master.
  - iii. Officer in charge of different co-curricular activities.
  - iv. ...

**22. Plan of Action:**

My plan for Teaching and Research in the next three (3) years will be as listed below –

- a. *I will try to enrich the classroom teaching by using all possible teaching aids and also by taking continuous feedback from students.*
- b. *I will provide remedial teaching specially to the slow learners.*
- c. *I will inculcate the habit of research work amongst the UG and PG project students by providing them exposer to send research articles to reputed journals.*
- d. *I will apply for a Major Project and if it gets approved some research scholars of ours will be engaged in it.*
- e. *I will try to give my best in grooming my PhD research scholars*

**(SAMARJIT DAS)**